

Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, contained in the *CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

SECTION 08620

UNIT SKYLIGHTS

Specifier Notes: This section covers Auburn® unit skylights with plastic glazing. Consult Major Industries for assistance in editing this section for the specific application.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Unit skylights with plastic glazing.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to the skylights.

- A. Section 06100 - Rough Carpentry: Wood blocking.
- B. Section 07620 - Sheet Metal Flashing and Trim.
- C. Section 07720 - Roof Accessories: Manufactured curbs.
- D. Section 07920 - Joint Sealants.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. AAMA 2603 - Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
- B. AAMA 2605 - Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
- C. ANSI Z97.1 - Safety Glazing Materials Used in Buildings.
- D. ASTM A 193 - Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service.
- E. ASTM B 211 - Aluminum and Aluminum-Alloy Bar, Rod, and Wire.
- F. ASTM B 221 - Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- G. ASTM B 316 - Aluminum and Aluminum-Alloy Rivet and Cold-Heading Wire and Rods

1.4 SYSTEM DESCRIPTION

- A. Design Requirements:
 - 1. Extruded aluminum members with plastic glazing as specified.
 - 2. Integral guttering system within skylight framing members for positive condensation drainage.

Specifier Notes: Provide project design data as required.

- C. Design Loads: Framing components shall be designed to support following loads:
 - 1. Live Load: [_____ psf] [As indicated on the drawings].
 - 2. Wind Load: [_____ psf] [As indicated on the drawings].
 - 3. Alternate Design Loads: Conform to state and local codes.

1.5 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, finishes, and installation.
- C. Shop Drawings: Submit manufacturer's shop drawings, including, sections, and details, indicating dimensions, tolerances, profiles, anchorage, connections, fasteners, provisions for expansion and contraction, drainage, finish, glazing, and attachments to other Work.
- D. Samples: Submit manufacturer's samples of each type of finish and glazing material as

requested before fabrication.

1. Aluminum Finish: Color charts or range samples for selection of color as specified.
2. Glazing Materials: Samples for verification of specified color, as specified.

- G. Manufacturers Project References: Submit list of successfully completed projects including project name and location, name of architect, and type and quantity of skylights manufactured.
- H. Installers Project References: Submit list of successfully completed projects including project name and location, name of architect, and type and quantity of skylights installed.
- I. Maintenance Manual: Submit manufacturer's maintenance and cleaning instructions for skylights.
- J. Warranty: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

- A. Manufacturers Qualifications:
1. Continuously engaged in unit skylight manufacturing with a minimum of 20 years successful experience.
 2. Able to demonstrate successful performance on comparable projects.
 3. Responsible for all skylight components.
- B. Installers Qualifications:
1. Minimum of 5 consecutive years successful experience in installation of similar metal-framed skylights.
 2. Approved by manufacturer.
 3. Installer's Personnel: Employ persons trained for installation of metal-framed skylights.

Specifier Notes: Describe requirements for a preinstallation meeting to coordinate the installation of the skylights. Edit the paragraph as required for the project.

- C. Preinstallation Meeting: Convene a preinstallation meeting [2] [_____] weeks before start of installation of skylights. Require attendance of parties directly affecting work of this section, including Contractor, Architect, installer, and manufacturer's representative. Review examination, preparation, installation, cleaning, protection, and coordination with other work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name, manufacturer, and location of installation.
- B. Storage: Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Auburn® Skylights, A Division of Major Industries, Inc., PO Box 306, 7120 Stewart Avenue, Wausau, Wisconsin 54402-0306. Toll Free (888) 759-2678. Phone (715) 842-4616. Fax (715) 848-3336.

2.2 UNIT SKYLIGHTS

- A. Style: [Dome] [Pyramid] [Hip Ridge] [Round]
- B. Overall Dimensions: [_____ width x _____ length] [As indicated on the drawings].
- C. Framing: Extruded aluminum, ASTM B 221, Alloy 6063-T6 or 6061-T6. Skylight shall be constructed of extruded aluminum shapes similar to the sections as shown on the architectural drawings. They shall incorporate continuous gaskets applied above and below the glazing, and shall have condensation gutters as an integral part of their construction.
- D. Glazing Strips:
 - 1. Manufacturers Standard
- F. Fasteners:
 - 1. For Exterior Cap Retainers: Stainless steel screws, ASTM A 193, Series B8 300.
 - 3. Finish: Exposed fasteners to match aluminum finish.
- H. Sealants:
 - 1. Nonstructural Weather Seal Joints: Silicone sealants. Apply in accordance with sealant manufacturer ' s instructions.

Specifier Notes: Delete if the curb is not to be supplied by skylight manufacturer.

- I. Curb:
 - 1. [__]“] high double wall insulated aluminum curb. Full mitered corners, all seams welded, 1 ½” thick rigid fiberglass insulation, pressure treated wood nailer strip.
- J. Glazing Caps:
 - 1. Extruded aluminum, Alloy 6063-T6.
 - 2. Glazing caps attached at factory with glazing cap fasteners located at a maximum of 9 inches on center or as required to resist negative loading.

2.3 ALUMINUM FINISH

Specifier Notes: Specify one of the following aluminum finishes and delete the others. Consult Major Industries for assistance in determining required finish for the specific application.

- A. Anodized Coating: Architectural Class I clear anodized, Type AA-M10C22A41.
- B. Anodized Coating: Architectural Class II clear anodized, Type AA-M10C22A31.
- C. Anodized Coating: Architectural Class I pigmented anodized, Type AA-M10C22A42/A44.
 - 1. Color: [_____] [As selected by Architect from manufacturers standard colors] [As indicated on the drawings].
- D. Pigmented Organic Coating: AAMA 2603.

1. Color: [_____] [As selected by Architect from manufacturers standard colors] [As indicated on the drawings].

E. High-Performance Pigmented Organic Coating: AAMA 2605.

1. Color: [_____] [As selected by Architect from manufacturers standard colors] [As indicated on the drawings].

F. Mill finish

2.4 GLAZING

Specifier Notes: Specify one of the following glazing types and delete the other. Consult Major Industries for assistance in determining required glazing for the specific application. Maximum size of polycarbonate glazed unit skylight is 60" x 96" OCD.

A. [Acrylic Plastic Glazing] [Polycarbonate Plastic Glazing]

B. Outer [Single] dome color: [Clear] [White] [Bronze] [Gray]

C. Inner [Double] dome color: [Clear] [White] [Bronze] [Gray]

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive skylights, including supporting structure and substrate for dimensions, tolerances, material conditions, and support. Installer and manufacturers representative shall be present.
- B. Notify Architect of conditions that would adversely affect installation or subsequent utilization of skylights. Do not proceed with installation until unsatisfactory conditions are corrected.

3.2 PREPARATION

- A. Ensure supports to receive skylights are clean, flat, level, plumb, and square.

3.3 INSTALLATION

- A. Install skylights in accordance with manufacturer's instructions at locations indicated on the drawings.
- B. Install skylights level, plumb, square, accurately aligned, correctly located, and without warp or rack.
- C. Do not install skylight components with deficiencies or dimensional errors. Do not proceed with installation until unsatisfactory components are replaced.

- D. Anchor skylights securely in place to supports to resist all loads. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
- E. Install skylights including flashing, fasteners, hardware, sealants, gaskets, and glazing materials required for a complete, weatherproof installation.
- F. Isolate with protective barrier contact areas between aluminum and dissimilar metals.
- G. Sheet Metal Flashing: Install sheet metal flashing at skylight perimeter as specified in Section 07620.
- H. Sealants: Install sealants as required to prevent air and water intrusion as specified in Section 07920.

3.4 FIELD QUALITY CONTROL

- A. Inspect installed skylights for required fasteners, wet-sealing, and uniformity of retaining caps.
- B. Inspect skylight framing members for level and plumb.
- C. Inspect installation of sheet metal flashing and sealants.
- D. Inspect glazing units for cracks, deep scratches, and other damage.

3.5 CLEANING

- A. Clean installed skylights in accordance with manufacturer's instructions.
- B. Clean skylights inside and outside, including member connections and inside corners, immediately after installation and after sealants have cured.
- C. Remove temporary protective coverings and strippable coatings from prefinished metal surfaces.
- D. Remove labels and part number markings from components.
- E. Remove excess sealant in accordance with sealant manufacturer's instructions.
- F. Do not use harsh cleaning materials or methods that would damage metal finishes or glazing.

3.6 PROTECTION

- A. Protect installed skylights in accordance with manufacturer's instructions.
- B. Maintain protection to ensure that, except for normal weathering, skylights will be without damage or deterioration at time of substantial completion.
- C. Remove and replace glass units which are chipped, cracked, abraded, or otherwise damaged.

END OF SECTION